



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

LM41/1103

HARRY F SMITH  
PERMAN & GREEN  
425 POST ROAD  
FAIRFIELD CT 06430

APPLICATION NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
08/803,814	02/24/97	029	JUNG, D	2771 11/03/99
First Named Applicant	SIITONEN,	35 USC 154(b) term ext.	=	0 Days.

TITLE OF INVENTION PERSONAL DIGITAL ASSISTANT WITH REAL TIME SEARCH CAPABILITY

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEES DUE	DATE DUE
2 466-006903-U	707-003.000	D73	UTILITY	NO	\$1210.00	02/03/00

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT.  
PROSECUTION ON THE MERITS IS CLOSED.**

**THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS  
APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.**

**HOW TO RESPOND TO THIS NOTICE:**

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
- B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.

II: Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.

III: All communications regarding this application must give application number and batch number.  
Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

GB

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
08/803,814	02/24/97	SITTONEN	L 466-006903-U

LM41/1103

EXAMINER

JUNG, D

ART UNIT

PAPER NUMBER

2771

#14

DATE MAILED:

11/03/99

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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

## Notice of Allowability

Application No.  
08/803,814

Applicant(s)

Siitonen et al.

Examiner

David Jung

Group Art Unit  
2771



All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due course.

- This communication is responsive to 9/23/99
- The allowed claim(s) is/are 1-29

The drawings filed on \_\_\_\_\_ are acceptable.

Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

- All  Some\*  None of the CERTIFIED copies of the priority documents have been
- received.
- received in Application No. (Series Code/Serial Number) \_\_\_\_\_.
- received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_

Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS FROM THE "DATE MAILED" of this Office action. Failure to timely comply will result in ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.

Applicant MUST submit NEW FORMAL DRAWINGS

- because the originally filed drawings were declared by applicant to be informal.
- including changes required by the Notice of Draftsperson's Patent Drawing Review, PTO-948, attached hereto or to Paper No. \_\_\_\_\_.
- including changes required by the proposed drawing correction filed on \_\_\_\_\_, which has been approved by the examiner.
- including changes required by the attached Examiner's Amendment/Comment.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the reverse side of the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Any response to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.

### Attachment(s)

- Notice of References Cited, PTO-892
- Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_
- Notice of Draftsperson's Patent Drawing Review, PTO-948
- Notice of Informal Patent Application, PTO-152
- Interview Summary, PTO-413
- Examiner's Amendment/Comment
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- Examiner's Statement of Reasons for Allowance

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## **DETAILED ACTION**

### ***Inventorship***

1. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

### ***Drawings***

2. This application has been filed with informal drawings which are acceptable for examination purposes only. Formal drawings will be required when the application is allowed.

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Abdul-Halim and Hashimoto et al. Claims 1, 3, 6 are the independent claims; claims 2, 4-5, 7-11 are the dependent claims.

In regard to claim 1, Abdul-Halim teaches a “a method for operating a personal digital assistant ..., storing ... relatable call numbers, choosing from a directory ...” as in claim 1. See Abstract which discusses pager (a type of a personal digital assistant) with directory entries.

Abdul-Halim does not teach “inputting a search key ..., comparing the search key ..., selecting a record ..., and utilizing the information ... to initiate ... electronic communication” as in claim 1.

Hashimoto et al. teaches “inputting a search key ..., comparing the search key ..., selecting a record ..., and utilizing the information ... to initiate ... electronic communication” as in claim 1. See Abstract which discusses a paging device with a search. See also column 1, lines 63 to column 2, lines 16, which discusses an electronic organizer (which is another type of a personal digital assistant).

Hashimoto et al. suggests to combine with a pager such as Abdul-Halim. - with the suggested purpose of having a pager to received from the paging device, thereby obtaining the benefit of user convenience. Such having both pager and receiver on a single device is convenient to the user. This benefit is commonly recognized in the communication arts. To wit, the common

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telephone has both a speaker end that is held to the ear and a speaking end that is held to the mouth of the user. That such a combination be of a single device that has both the pager and paging device is discussed at column 1, lines 10-32 of Hashimoto et al.

Thus, it would have been obvious to those of ordinary skill in the art at the time of the claimed invention to combine Abdul-Halim and Hashimoto et al. for the benefit of user convenience.

In regard to claim 3, such search is discussed in Hashimoto et al. See Abstract which discusses sequential search.

In regard to claim 6, such display is discussed in Abdul-Halimn. See Abstract.

In regard to claim 2, such sequential search is suggested in Hashimoto et al. See Abstract which discusses sequential search.

In regard to claim 4, such routing of message is suggested in Hashimoto et al. See column 4, lines 18-37, which discusses messages being sent.

In regard to claim 5, such sending a message at various times is suggested in Hashimoto et al. See column 4, lines 18-37, which discusses messages being sent at varioustimes such as fixed messages and conditional messages.

In regard to claim 7, such QWERTY keyboard is well known in the art for the purpose of using established input means.

In regard to claim 8, such telephone keypad is well known in the art for the purpose of using established input means.

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In regard to claim 9, such touch screen is well known in the art for the purpose of using established input means.

In regard to claim 10, such voice recognition is well known in the art for the purpose of using established input means.

In regard to claim 11, such email and internet hookup is well known in the art for the purpose of facilitating communication.

***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art shows searching and digital assistants.

6. **Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

**or faxed to:**

(703) 308-9051, (for formal communications intended for entry)

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**Or:**

(703) 305-9731 (for informal or draft communications, please label  
"PROPOSED" or "DRAFT")

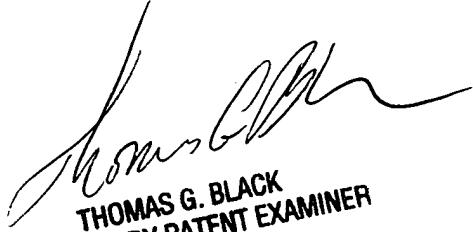
Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,  
Arlington, VA., Sixth Floor (Receptionist).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Jung whose telephone number is (703) 308-5262 or Thomas Black whose telephone number is (703) 305-9707.



THOMAS G. BLACK  
SUPERVISORY PATENT EXAMINER  
GROUP 2700

DJ



April 17, 1998